



A.D. 1871, *8th JUNE.* N° 1519.

S P E C I F I C A T I O N

OF

WILLIAM ROBERT LAKE.

PADS FOR TRUSSES.

LONDON:

PRINTED BY GEORGE E. EYRE AND WILLIAM SPOTTISWOODE,
PRINTERS TO THE QUEEN'S MOST EXCELLENT MAJESTY :

PUBLISHED AT THE GREAT SEAL PATENT OFFICE,
27, SOUTHAMPTON BUILDINGS, HOLBORN.

1871.



A.D. 1871, *8th JUNE.* N° 1519.

Pads for Trusses.

LETTERS PATENT to William Robert Lake, of the Firm of Haseltine, Lake, & Co., Patent Agents, Southampton Buildings, London, for the Invention of “**IMPROVEMENTS IN PADS FOR RUPTURE TRUSSES.**”—A communication from abroad by Thomas Atkinson M^cFarland, of Erie, Pennsylvania, United States of America.

Sealed the 14th August 1871, and dated the 8th June 1871.

COMPLETE SPECIFICATION filed by the said William Robert Lake at the Office of the Commissioners of Patents, with his Petition and Declaration, on the 8th June 1871, pursuant to the 9th Section of the Patent Law Amendment Act, 1852.

5 TO ALL TO WHOM THESE PRESENTS SHALL COME, I, WILLIAM ROBERT LAKE, of the Firm of Haseltine, Lake, & Co., Patent Agents, Southampton Buildings, London, send greeting.

10 WHEREAS I am in possession of an Invention for “**IMPROVEMENTS IN PADS FOR RUPTURE TRUSSES,**” and have petitioned Her Majesty to grant unto me, my executors, administrators, and assigns, Her Royal Letters Patent for the same, and have made solemn Declaration that it has

Lake's Improvements in Pads for Trusses.

been communicated to me from abroad by Thomas Atkinson M^cFarland, of Erie, Pennsylvania, United States of America.

NOW KNOW YE, that I, the said William Robert Lake, do hereby declare that the following Complete Specification, under my hand and seal, fully describes and ascertains the nature of the said Invention, and 5 in what manner the same is to be performed, in and by the following statement, reference being had to the accompanying Drawing forming a part of this Specification.

The object of my Invention is the production of a pad for rupture or hernia trusses that shall permit the body to move into any position, 10 and will at the same time remain stationary on the ruptured or protruding part.

DESCRIPTION OF THE DRAWING.

Figure 1 shews a truss with my improved pad attached thereto; Figure 2 is a transverse section of the said pad drawn to an enlarged 15 scale shewing the manner in which it is constructed.

In Figure 1 A is the ordinary spinal pad; B is the spring; and C, the pad provided with my improvements as clearly shown in Figure 2. This pad C is composed of the following parts:—I is the body piece, which may be made of wood, metal, or any other suitable material. 20 In this piece is cut the cavity or mortice G wherein is placed the spiral spring H. Fitting or pressing on this spring is the bolt E with its sperical, hemispherical, or double convex head F; this is held in place by the metallic plate D which is screwed to the body I by the screws J. The upper part of the bolt E has a screw cut thereon for the purpose 25 of attaching the same to the spring B. The coil spring H is taper, and as it is pressed together the parts fit within each other, forming a flat coil, thus preventing kinking and giving ample room. The head F is spherical in form, and as the shank of the bolt has play room in the plate D it acts as a ball-and-socket joint allowing the pad to vibrate in 30 every direction. Thus it will be seen that while the pad is pressing against the ruptured or protruding part the vibrations of the truss caused by the movements of the body are lost in the action of the ball-and-socket joint above described, and the pad does not move at all. Instead of the head F resting directly on the spring, as shewn in 35 Figure 2, a loose plate may be placed on the spring and the head placed on that, so as to act between the said loose plate and the plate D.

Lake's Improvements in Pads for Trusses.

Having thus described the said Invention as communicated to me by my foreign correspondent, I claim,—

First. The bolt E with its spherically formed head F in combination with the spiral spring H operating as described and for the purposes
5 set forth.

Second. The bolt E with its head F constructed as described, and the spiral spring H in combination with the body I and plate D when constructed and operating as described for the purposes set forth.

10 In witness whereof, I, the said William Robert Lake, have here-
unto set my hand and seal, this Eighth day of June, in the year
of our Lord One thousand eight hundred and seventy-one.

WILLIAM ROBERT LAKE. (L.S.)

Witness,

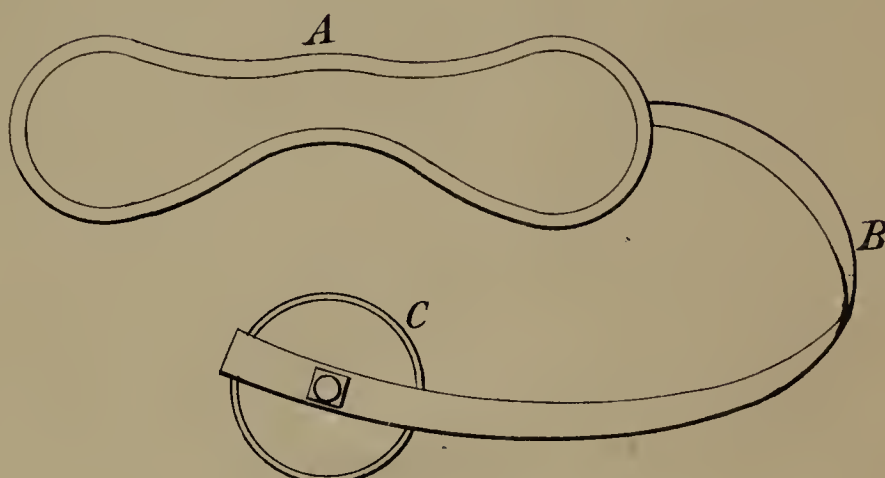
E. W. TYNDALL.

LONDON :

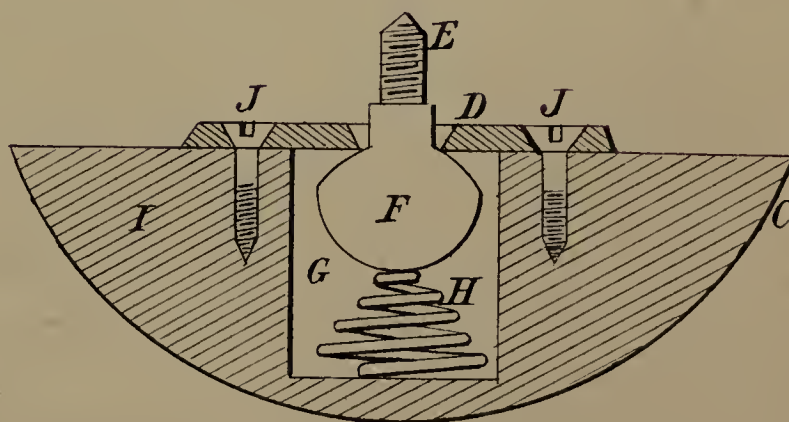
Printed by GEORGE EDWARD EYRE and WILLIAM SPOTTISWOODE,
Printers to the Queen's most Excellent Majesty. 1871.

A.D.1871. JUNE 8. N^o.1519.
LAKE'S COMPLETE SPECIFICATION.

F I G. 1.



F I G. 2.



The filed drawing is not colored.

Drawn on Stone by Malby & Sons

